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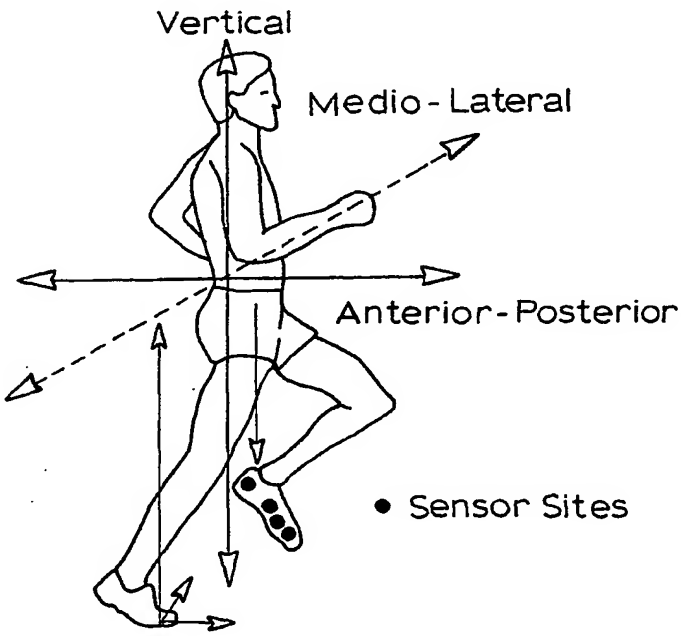
(54) Title: MEASURING FORCES IN ATHLETICS



(57) Abstract: A system for measuring ground reaction force and analyzing the performance of an athlete in which force sensors are located in the athletes shoe and a three dimensional accelerometer is located adjacent the athletes centre of gravity and the signals from the accelerometer and the force sensors are recorded and used to derive the three orthogonal components of the ground reaction force (GRF). An artificial neural network is used to derive the three orthogonal components of GRIF by way of a learning algorithm.

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